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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,941	02/27/2004	Osamu Miyazawa	9319A-000704	6781
27572 7:	590 09/23/2005		EXAMINER	
HARNESS, D	DICKEY & PIERCE, P	BUDD, MARK OSBORNE		
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303		•	ART UNIT	PAPER NUMBER
BLOOMI ILLI	Difficulty, IMI 10303		2834	
			DATE MAIL ED. 00/22/2005	

DATE MAILED: 09/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	V.
	10/789,941	MIYAZAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mark Budd	2834	
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet wit	h the correspondence address	s
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT and cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this commun NDONED (35 U.S.C. § 133).	ication.
Status			
1) Responsive to communication(s) filed on	<u>_</u> ·		
2a) This action is FINAL . 2b) ☐ This	s action is non-final.		
3) Since this application is in condition for allowa	•	•	its is
closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-16</u> is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 27 February 2004 is/ard	e: a)⊠ accepted or b)⊡ ol	bjected to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is objected to. See 37 CFR 1.1	21(d).
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).	
1.☐ Certified copies of the priority document			
2. Certified copies of the priority document	s have been received in Ap	plication No	
3. ☐ Copies of the certified copies of the prior	*	eceived in this National Stage	е
application from the International Bureau	` ` ''		
* See the attached detailed Office action for a list	of the certified copies not re	eceived.	
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Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Su	mmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/	Mail Date	
3) Information Disclosure Statement(s) (PTO 1449 or PTO/SB/08) Paper No(s)/Mail Date 8 - 8 - 0 5 \(2 - 2 - 3 - 0 \)	5) Notice of Info 6) Other:	ormal Patent Application (PTO-152)	
U.S. Patent and Trademark Office			

Application/Control Number: 10/789,941

Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim1-4 and 7-16 rejected under 35 U.S.C. 103(a) as being unpatentable over Miyazawa (393)). Miyazawa figures 7 and 13 clearly show a vibration element which includes first and second piezoelectric element's that undergo extension and contraction when supplied with an appropriate AC signal. An arm portion ((68)) and a contact portion (66)) are also shown. In Miyazawa does not disclose any specific dimensions. However, it has long been held that optimizing a known structure (for example through routine experimentation) is within the skill expected of the routineer. Thus, arriving at a specific longitudinal dimension (e.g 1-20mm) would have been obvious to one of ordinary skill in the art.

Claimsis 1-16 are rejected under 35 USC (a) as being obvious in view of Miyazawa (223). This reference teaches (see figures 3,6,7,9,13, 15-18 and 20-22) all of the claimed features except

for the longitudinal dimensions. As noted above, selection of specific dimensions would have been obvious to one of ordinary skill in the art. Regarding claims five and six which read on applicantsfigure 28, please notefigure 15 of Miyazawa (223).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Budd whose telephone number is 571-272-2019. The examiner can normally be reached on Monday through Thursday from 6 a.m. to 4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Budd Primary Examiner Art

Unit 2834